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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	TORNEY DOCKET NO. CONFIRMATION NO.	
10/559,399	06/16/2006	Peter David Armstrong	DC-5067 PCT 1	7248	
27305 HOWARD &	7590 01/23/200 HOWARD ATTORNE	EXAMINER			
450 West Fourth Street			MATTHEWS, TERRELL HOWARD		
Royal Oak, M	I 48067		ART UNIT PAPER NUMBER 3653		
			MAIL DATE	DELIVERY MODE	
			01/23/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)		
10/559,399	ARMSTRONG ET AL.		
Examiner	Art Unit		
Terrell H. Matthews	3653		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
- after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
- earned patent term adjustment. See 37 CFR 1.704(b).

Status	

111	Responsive to	communication(s) filed on	22 October	2008

- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-18 is/are pending in the application.
 - 4a) Of the above claim(s) 11-18 is/are withdrawn from consideration.
- 5) Claim(s) 9-10 is/are allowed.
- 6) Claim(s) 1-8 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 - Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.

 - Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
 - * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) T Information Disclosure Statement(s) (PTO/SE/08)
 - Paper No(s)/Mail Date _

- 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.
- Notice of Informal Patent Application
- 6) Other:

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DETAILED ACTION

Applicant's arguments see pgs. 15-19, filed 10/22/2008, with respect to the rejection(s) of claim(s) 1-8 under 35 USC 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Frantz (US-3074085) and Kolm (US-3676337).

Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Referring to claims 1-8. Kolm discloses a "Process For Magnetic Separation".

See Figs. 1- 6c and respective portions of the specification. Kolm further discloses a vibrating magnetic separator having vibrating components and stationary components wherein the vibrating magnetic separator comprises in combination an electromagnet, a pressure vessel having an inlet (5) and an outlet (5'), said pressure vessel being in the electromagnet; discloses wherein a ferromagnetic matrix could be used (See at least Col. 3 l. 25-37, a vibrator for vibrating the ferromagnetic matrix (See at least Col. 2 l. 20-22) said vibrator moving in a vertical direction. Kolm does not disclose wherein the means of applying vibration to the matrix is a moveable shaft connecting the vibrator and the matrix and wherein there is at least one linear vibrator or a pressure retaining flexible bellows to seal the process contents from leaking to the atmosphere and to isolate the vibrating components from the stationary components. Frantz discloses a

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"Magnetic Separator". See Figs. 1-5 and respective portions of specification. Frantz further discloses a vibrating magnetic separator comprising a vessel (5) with an inlet and a moveable shaft (16) with means for applying vibration to the magnetic separator (See at least Fig. 5) Kotlyar discloses a "Mechanical Seal Assembly", See Figs. 1-4 and respective portion of the specification. Kotlyar further discloses a pressure retaining flexible bellows (41) to seal process contents and to isolate the vibrating components from the stationary components (See at least Fig. 2). Kotlyar further discloses wherein the flexible bellows has at least two plies and failure detection means (See at least Col. 4 I, 20 - Col. 5 I, 26, Col. 5 I, 63 - Col. 6 I, 13), It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the apparatus of Kolm to include the teachings of Frantz and Kotlyar wherein a vibrating shaft was included to vibrate the ferromagnetic matrix as disclosed by Kolm so more efficient separation could be realized in addition to including teaching of Kotlyar wherein the mechanical assembly comprising pressure retaining flexible bellows were used to seal the process contents in the vessel so that harmful and dangerous chemicals and contents could not leak out form the vessel during separation and operation of the magnetic separator. Moreover, it should be noted that it has been held that recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Moreover, variations such as applying vibration through a moveable shaft or wherein bellows are metal bellows with two plies are predictable to one of ordinary skill in the art. See MPEP 2143, Further, the prior art discussed and

cited demonstrates the level of sophistication of one with ordinary skill in the art and that these modifications would be well within this skill level. Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the invention of Kolm as is well known in the art.

Allowable Subject Matter

Claims 9-10 allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terrell H. Matthews whose telephone number is (571)272-5929. The examiner can normally be reached on M-F 8am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Mackey can be reached on (571) 272-6916. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Patrick H. Mackey/ Supervisory Patent Examiner, Art Unit 3653

THM